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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,774	09/17/2003	Kyoung Mook Lee	8733.915.00-US	1766
	7590 02/11/200 DNG & ALDRIDG E L	EXAMINER		
1900 K STREET, NW WASHINGTON, DC 20006			NGUYEN, DUNG T	
			ART UNIT	PAPER NUMBER
			2871	
			MAIL DATE	DELIVERY MODE
			02/11/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		Appli	Application No.		Applicant(s)	
		10/66	3,774	LEE ET AL.		
		Exam	iner	Art Unit		
		Dung	Nguyen	2871		
The MAIL Period for Reply	ING DATE of this commu	nication appears or	the cover sheet	with the correspondence	e address	
A SHORTENED WHICHEVER IS - Extensions of time n after SIX (6) MONTH - If NO period for reply - Failure to reply with Any reply received by	STATUTORY PERIOD F LONGER, FROM THE M hay be available under the provision 15 from the mailing date of this com v is specified above, the maximum so the set or extended period for repl y the Office later than three months adjustment. See 37 CFR 1.704(b).	MAILING DATE OF s of 37 CFR 1.136(a). In a munication. tatutory period will apply a y will, by statute, cause the	THIS COMMU no event, however, may and will expire SIX (6) Me application to become	NICATION. y a reply be timely filed MONTHS from the mailing date of the ABANDONED (35 U.S.C. § 133	this communication.	
Status						
2a)☐ This action 3)☐ Since this	re to communication(s) file is FINAL . application is in condition accordance with the pract	2b)⊠ This action for allowance exc	is non-final. ept for formal m	•	o the merits is	
Disposition of Clai	ms					
4a) Of the 5) ☐ Claim(s) _ 6) ☑ Claim(s) <u>1</u> 7) ☑ Claim(s) <u>6</u> 8) ☐ Claim(s) _ Application Papers 9) ☐ The specifi 10) ☐ The drawir	-30 is/are pending in the above claim(s) is/a is/a is/a is/are allowed5,7-19,23,24 and 26-29 is/20-22,25 and 30 is/are cation is objected to by the g(s) filed on is/are any not request that any objected to by the gy of the guest that any objected to by the gy of the guest that any objected to by the gy of	are withdrawn from is/are rejected. bejected to. ction and/or election and and and and and and and and and an	on requirement. or b)⊡ objected	-	a)	
Replaceme	nt drawing sheet(s) includin	g the correction is re	quired if the draw	ing(s) is objected to. See 3	7 CFR 1.121(d).	
·	r declaration is objected t	o by the ⊏xammer	. Note the attact	led Office Action of form	H F 10-102.	
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some color None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
	son's Patent Drawing Review (sure Statement(s) (PTO/SB/08)		Paper N	w Summary (PTO-413) No(s)/Mail Date of Informal Patent Application		

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/31/2007 has been entered.
- 2. Applicant's amendment dated 10/31/2007 has been received and entered. Claims 1-30 are pending in the application.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-3, 7-10, 13-17, 23-24 and 26-27 are rejected under 35 U.S.C. 102(e) as being anticipated by Zhang et al., US 6,847,422.

The above claims are anticipated by Zhang et al. figure 2W and accompanying text which discloses an array substrate for a liquid crystal display (LCD) device comprising:

- . a substrate 1:
- . a plurality of gate lines having a gate electrode 5b;

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. a plurality of top gate thin film transistors TFTs, each having a gate electrode 5b, a

source/drain electrode 10a/10c;

. an interlayer insulating layer 9;

. a first gate redundancy line 10b;

. a passivation layer 11;

. a pixel electrode 19c.

It should be noted that the method of manufacturing the device is merely a list of forming each component and each component must be formed to make the device, the method of manufacturing would be inherent to the device.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 4-5, 11-12, 18-19 and 28-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zhang et al., US 6,847,422, in view of Kitakado et al., US 6,461,899.

Regarding the above claims, although Zhang et al. do not explicitly disclose a bottom gate type TFT using in the LCD device, Kitakado et al. do disclose top gate type and bottom gate type structure is known structures for a TFT manufactured on a glass substrate (col. 1, lines 55-57). Therefore, it would have been an obvious to one having ordinary skill in the art at the time the invention was made to employ the Zhang et al device having a bottom gate TFT since the

examiner takes Office Notice of the equivalence of a top gate type TFT and a bottom type TFT for their use in the display art and the selection of any of these known equivalents to operate a display device would be within the level of ordinary skill in the art.

Allowable Subject Matter

7. Claims 6, 20-22, 25 and 30 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung Nguyen whose telephone number is 571-272-2297. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DN 02/04/2008 /Dung T. Nguyen/ Primary Examiner Art Unit 2871